

Список основных публикаций Ф. Н. Томила по смежным оппонируемой диссертации тематикам в рецензируемых изданиях за последние 5 лет

1. Tomilin F., Artyushenko P., Shchugoreva I., Rogova A. et al. (2023). Structure and Vibrational Spectroscopy of C₈₂ Fullerenol Valent Isomers: An Experimental and Theoretical Joint Study. *Molecules*. 28. 1569. 10.3390/molecules28041569.
2. Shakirova A., Tomilin F., Pomogaev V., Vnukova N., Churilov G. et al. (2021). Synthesis, Mass Spectroscopy Detection, and Density Functional Theory Investigations of the Gd Endohedral Complexes of C₈₂ Fullerenols. *Computation*. 9. 58. 10.3390/computation9050058.
3. Morozov D., Mironov V., Moryachkov R., Shchugoreva I., Artyushenko P., Zamay G., Kolovskaya O., Zamay T., Krat A., Molodenskiy D., Zabluda V., Veprintsev D., Sokolov A., Zukov R., Berezovski M., Tomilin F., Fedorov D., Alexeev Y., Zamay A. (2021). The Role of Small-Angle X-Ray Scattering and Molecular Simulations in 3D Structure Elucidation of a DNA Aptamer Against Lung Cancer. *Molecular Therapy - Nucleic Acids*. 25. 10.1016/j.omtn.2021.07.015.
4. Rogova A., Gerasimova M., Tomilin F., Slyusareva E. (2021). Quantum chemical study of the spectral characteristics of fluorescein dyes bound to chitosan. 68. 10.1117/12.2613980.
5. Tomilin F., Pomogaev V., Melchakova Yu, Artyushenko P. et al. (2022). Structure and Properties of Exotic Nano- and Mesodiamonds with Pentagonal Symmetry. *Russian Physics Journal*. 64. 10.1007/s11182-022-02553-0.
6. Tomilin, F., Rogova A., Burakova L., Tchaikovskaya O., et al. (2021). Unusual shift in the visible absorption spectrum of an active ctenophore photoprotein elucidated by time-dependent density functional theory. *Photochemical & Photobiological Sciences*. 20. 10.1007/s43630-021-00039-5.
7. Shubin A., Kovalskii V., Ruzankin S., Zilberberg I., Parmon V., Tomilin F., Avramov P. (2021). The Fe IV O • oxyl unit as a key intermediate in water oxidation on the Fe III hydroxide: DFT predictions. *International Journal of Quantum Chemistry*. 121. 10.1002/qua.26610.
8. Melchakova Iu A., Nikolaeva K., Kovaleva E., Tomilin F. et al. (2021). Potential energy surfaces of adsorption and migration of transition metal atoms on nanoporus materials: The case of nanoporus bigraphene and G-C₃N₄. *Applied Surface Science*. 540. 148223. 10.1016/j.apsusc.2020.148223.
9. Artyushenko P.V., Mironov V.A., Morozov D., Shchugoreva I., Borbone N., Tomilin F., Kichkailo A.S. (2021). Computational approach to design of aptamers to the receptor binding domain of SARS-CoV-2. *Siberian Medical Review*. 66-67. 10.20333/25000136-2021-2-66-67.
10. Artyushenko P., Tsikalova P., Tomilin F. (2021). COMPUTER SIMULATION OF PROPERTIES OF PHEROMON MOLECULES OF SIBERIAN SILK MOTH. *Сибирский лесной журнал*. 60-70. 10.15372/SJFS20210507.

11. Tomilin F., Pomogaev V., Melchakova Iu A., Artjushenko P.V., et al. (2021). Structure and properties of exotic twinned nanoand mezodiamonds of pentagonal symmetry. *Izvestiya vysshikh uchebnykh zavedenii. Fizika.* 55-60. 10.17223/00213411/64/11/55.
12. Rogova A., Tomilin F., Gerasimova M., Slyusareva E. (2020). Modeling of Electronic Spectra of Ionic Forms of Eosin and Erythrosin. *Russian Physics Journal.* 63. 1417-1423. 10.1007/s11182-020-02186-1.
13. Fedorov A, Krasnov P., Visotin M., Tomilin F., Polyutov S. (2020). Thermoelectric and Plasmonic Properties of Metal Nanoparticles Linked by Conductive Molecular Bridges. *physica status solidi (b).* 257. 10.1002/pssb.202000249.
14. Kazachenko A., Tomilin F., Pozdnyakova A, Vasilyeva N. et al. (2020). Theoretical DFT interpretation of infrared spectra of biologically active arabinogalactan sulphated derivatives. *Chemical Papers.* 74. 10.1007/s11696-020-01220-3.